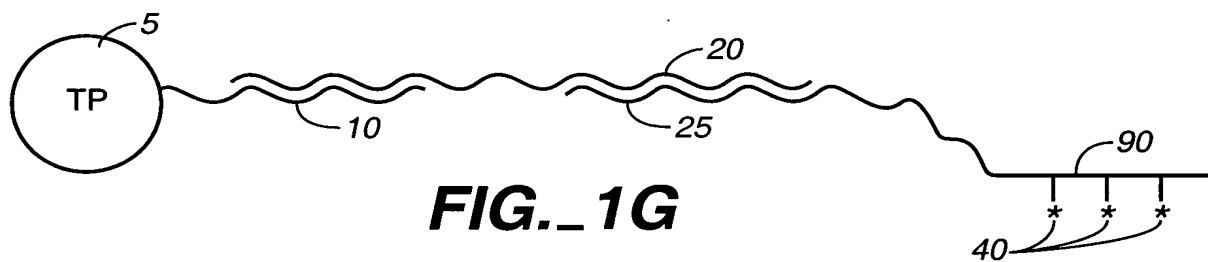
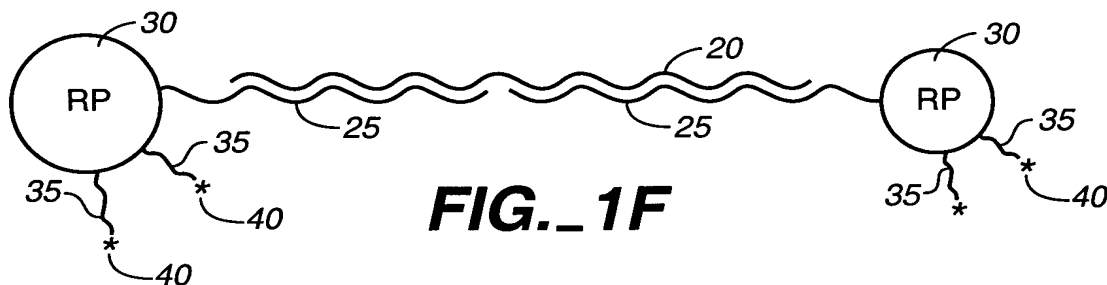
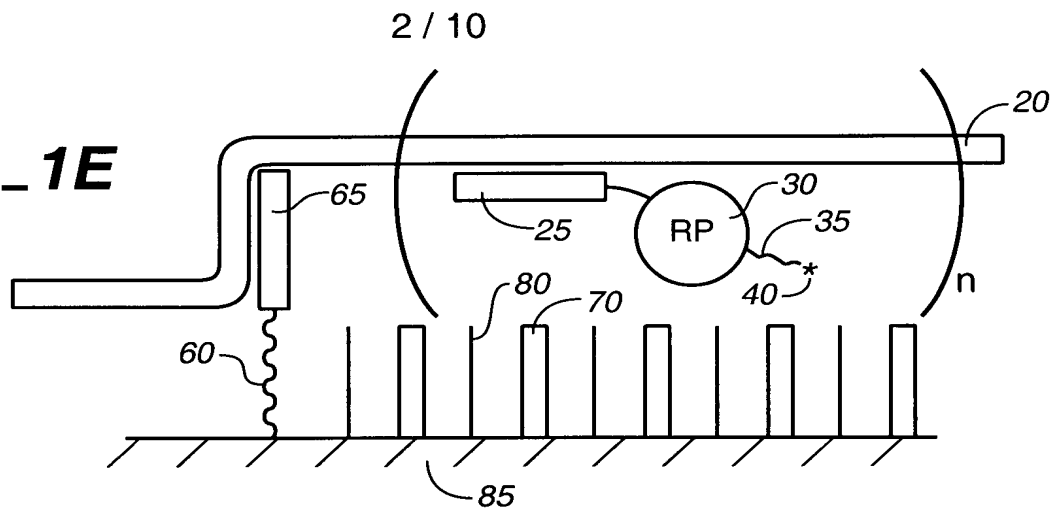
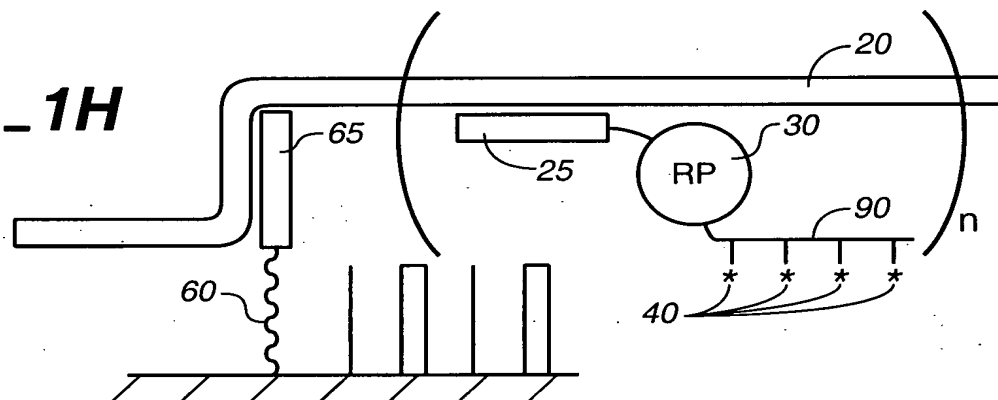
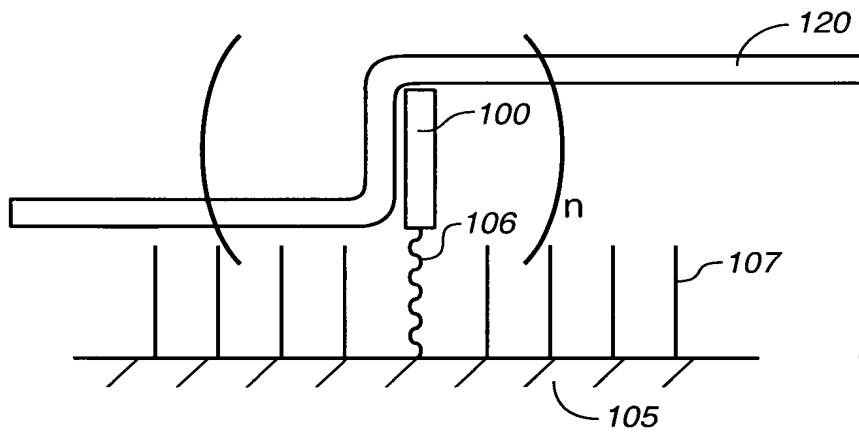
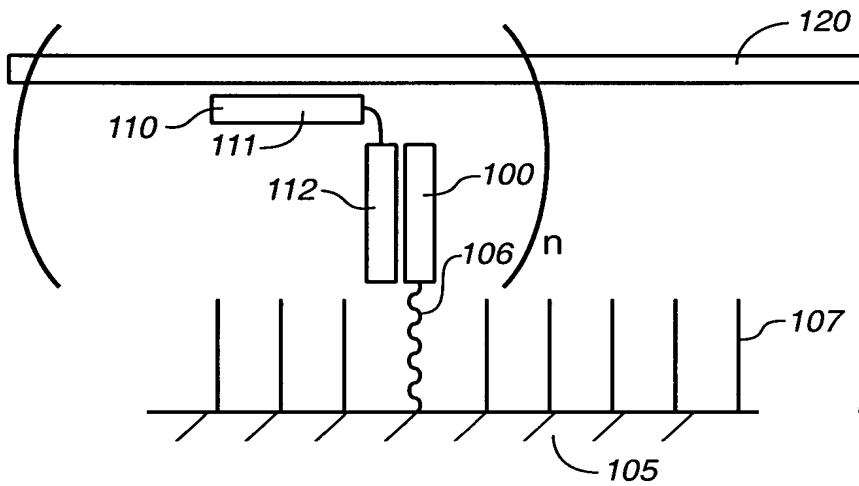


**FIG. 1E****FIG. 1H**

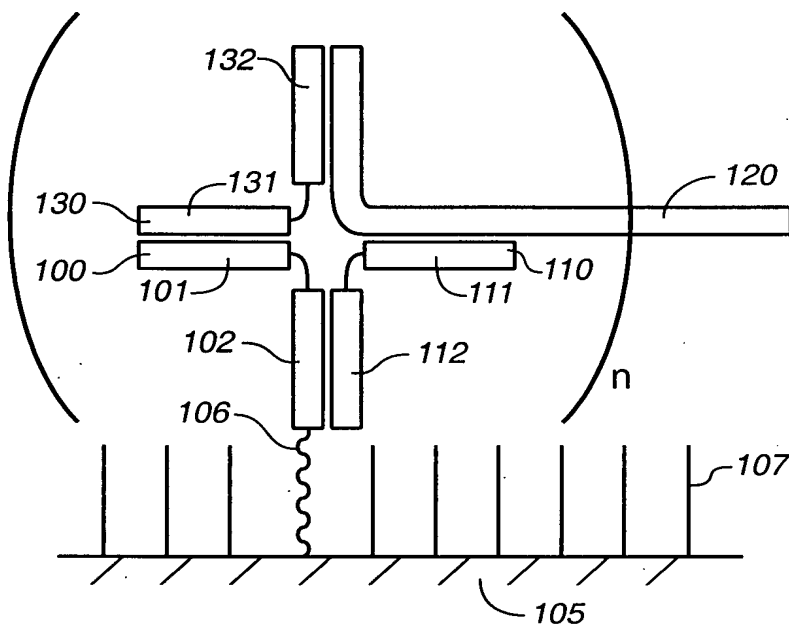
3 / 10



**FIG. 2A**



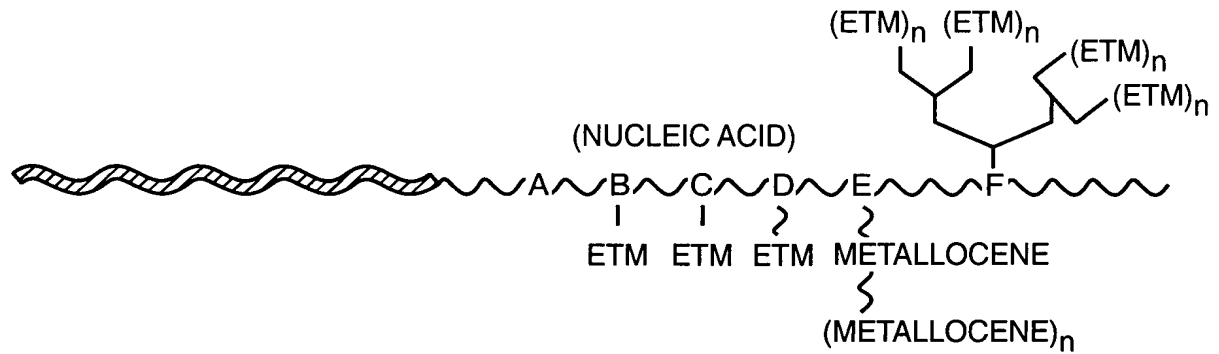
**FIG. 2B**



**FIG. 2C**

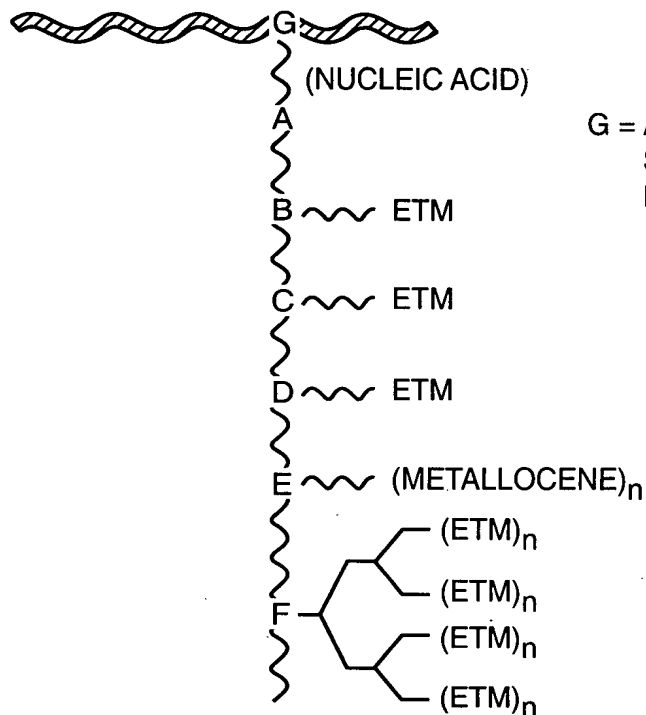
FIG. 2A

 = FIRST HYBRIDIZABLE PORTION OF LABEL PROBE  
 = RECRUITMENT LINKER



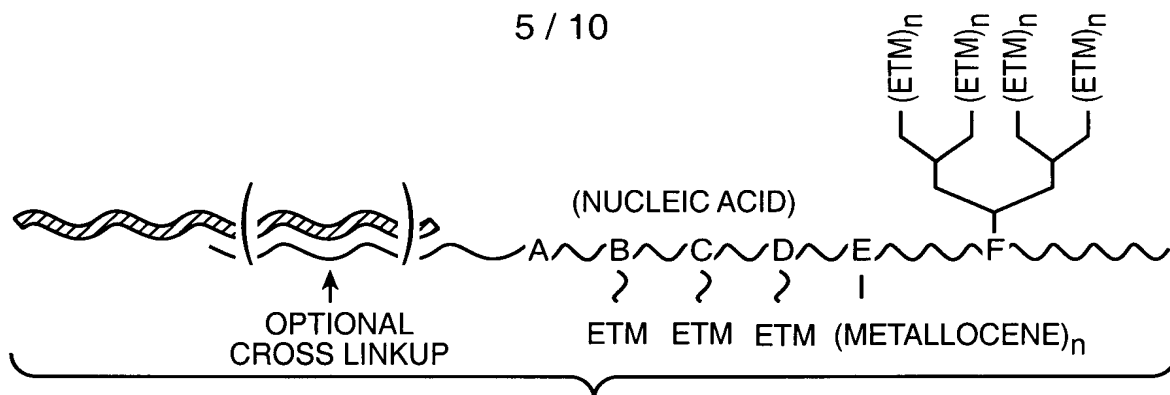
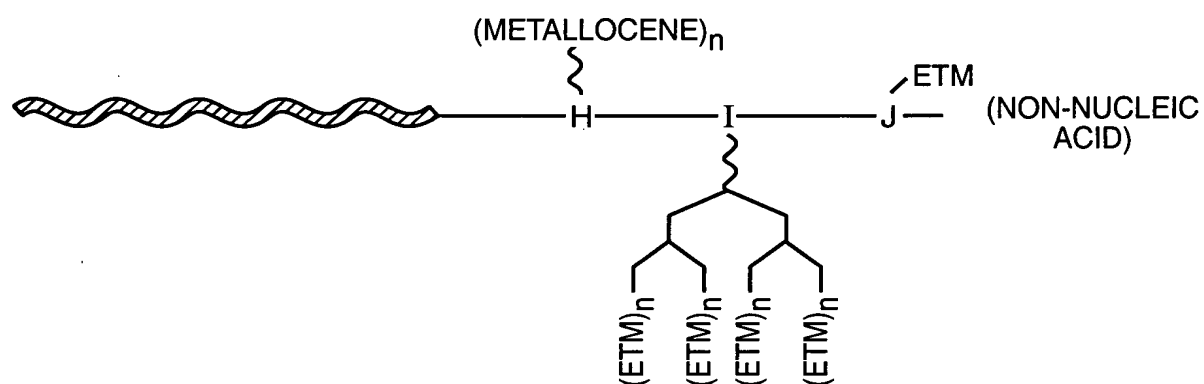
A = NUCLEOSIDE REPLACEMENT  
 B = ATTACHMENT TO A BASE  
 C = ATTACHMENT TO A RIBOSE  
 D = ATTACHMENT TO A PHOSPHATE

E = METALLOCENE POLYMER, ATTACHED  
 TO A RIBOSE, PHOSPHATE, OR BASE  
 F = DENDRIMER STRUCTURE, ATTACHED  
 VIA A RIBOSE, PHOSPHATE OR BASE

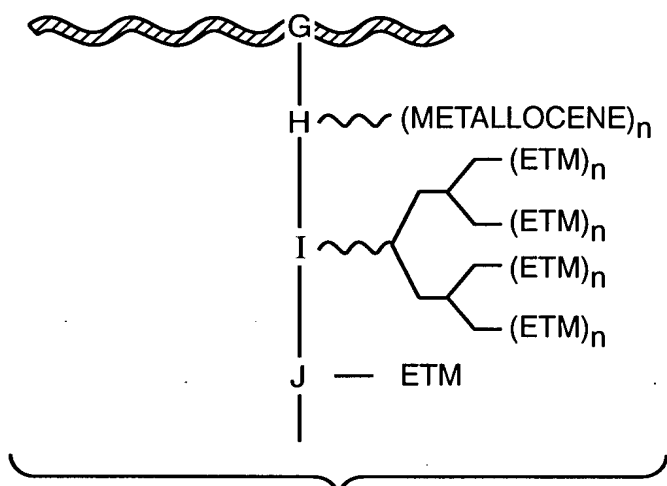
**FIG.\_3A**

G = ATTACHMENT VIA A "BRANCHING  
 STRUCTURE", THROUGH RIBOSE,  
 PHOSPHATE OR BASE

**FIG.\_3B**

**FIG.\_3C**

H = ATTACHMENT OF METALLOCENE POLYMERS  
 I = ATTACHMENT VIA DENDRIMER STRUCTURE  
 J = ATTACHMENT USING STANDARD LINKERS

**FIG.\_3D****FIG.\_3E**

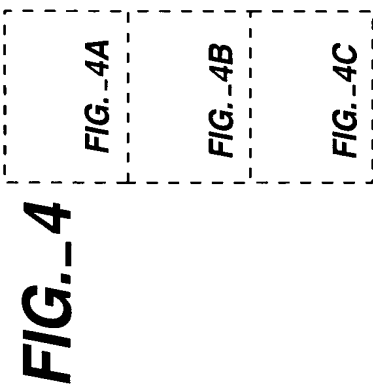
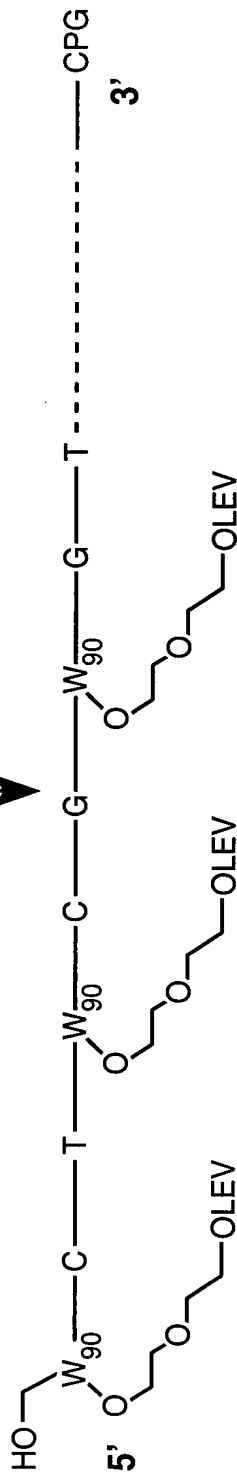
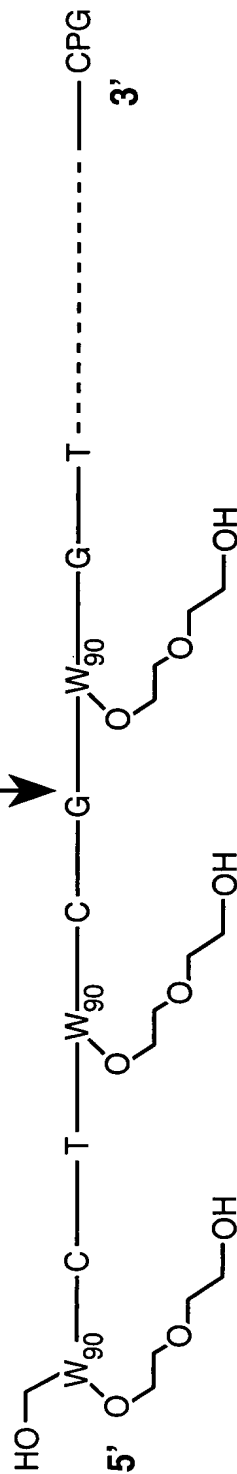


FIG. 4A

STANDARD DNA SYNTHESIS USING W90



NH<sub>2</sub>NH<sub>2</sub> / ACETIC ACID / PYRIDINE



7 / 10

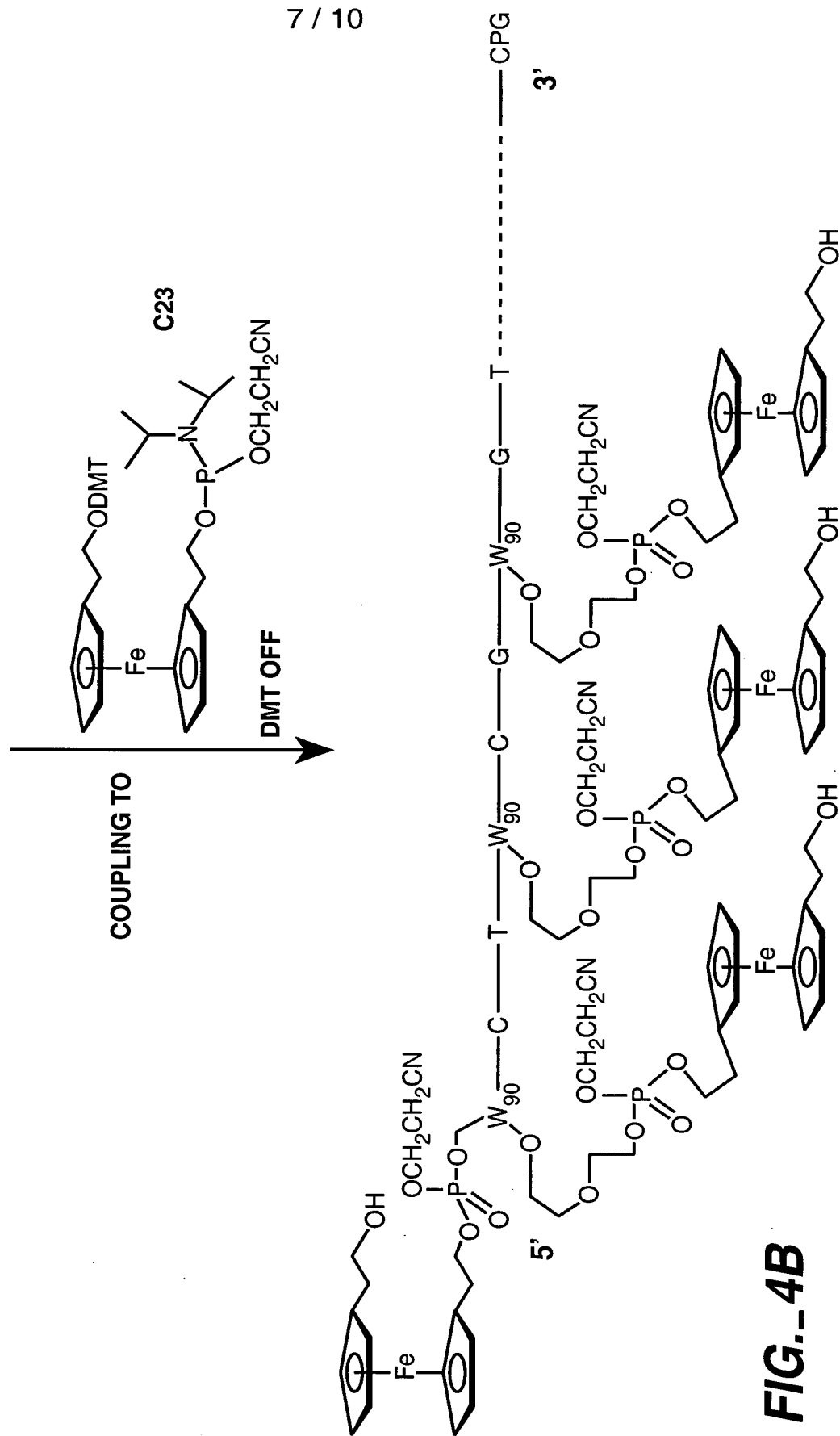
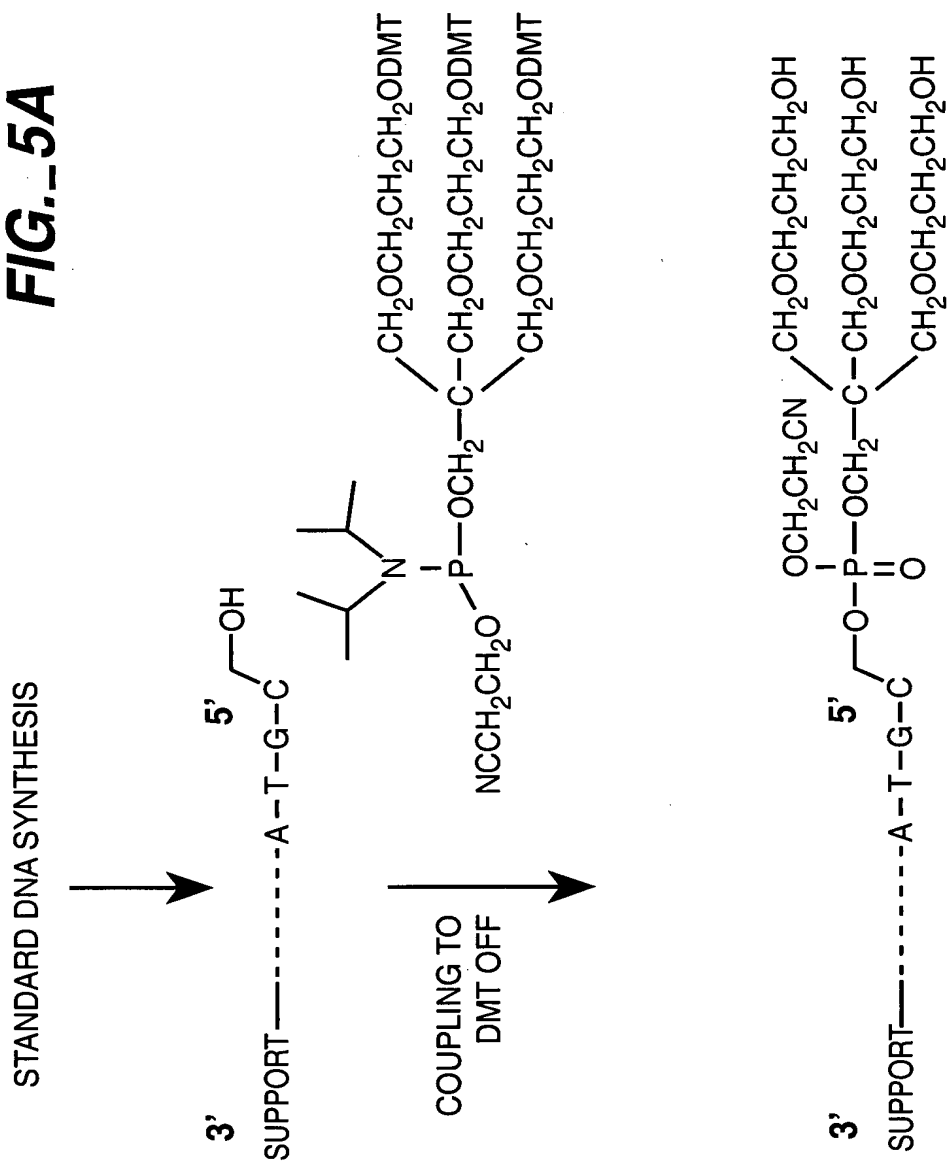
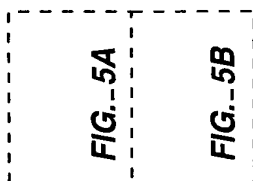
**FIG. 4B**





FIG. 5

FIG. 5A



THIS COUPLING PROCESS CAN BE  
REPEATED UNTIL DESIRED # OF THE  
BRANCHING POINTS

